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# GENERAL SERVICES ADMINISTRATION



Public Buildings Service Washington 25, D.C.

OCT 28 1363

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Colonel L. K. White Deputy Director (Support) Central Intelligence Agency Washington, 25, D.C.

Dear Colonel White:

We regret the deficiencies in the airconditioning system for your new headquarters building at Langley about which you wrote on October 7, 1963.

I asked Mr. Rantzow of my staff to check into this matter and to call you. I understand that he did so yesterday.

Region 3 has employed a consultant to review the findings of the study made of the system and to furnish recommendations as to corrective action necessary. It is hoped that these recommendations will be received in time so that corrective action will be completed before the next cooling season. In the meantime, we will do all possible with our maintenance force to obtain the most efficient operation of the existing system.

Sincerely yours,

R. T. Daly Commissioner

Public Buildings Service

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63-7624

8 October 1963

MEMORANDUM FOR: Mr. Kirkpatrick

SUBJECT

: Air Conditioning and Heating Systems

Kirk:

The frigid temperature in the Director's dining room last Friday was caused by a stuck thermostat; this has been corrected. As to the problem with regard to our over-all system and what we are doing about it, I attach hereto two letters which have been sent to the Public Buildings Service on this subject. I am not optimistic that we are going to have a satisfactory condition very soon, but we will certainly keep all the pressure we can on the General Services Administration.

STAT

L. K. White

2 Attachments:

Att 1: Ltr dtd 7 Oct 63 to Regional Director, PBS fr C/RECD/OL

Att 2: Ltr dtd 7 Oct 63 to Commissioner,

PBS fr DD/S

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xx 20505

#### 7 October 1963

Mr. Robert T. Daly Commissioner, Public Buildings Service General Services Administration Washington, D. C. 20407

Dear Bob:

As you know, we have occupied our new headquarters building at Langley for approximately two years. We recognized that some period of time after occupancy would be required to adjust and balance the air conditioning and heating systems.

While a great deal of attention has been given to this problem, the situation is still very unsatisfactory. A team of engineers from Region 3, assisted by Agency representatives, began this summer and has now completed an intensive study of the systems and has identified a number of deficiencies which must be corrected. I enclose for your reference a copy of a summary of the findings which has been forwarded today to Mr. Anthony W. Innamorati, Regional Director of the Public Buildings Service.

We realize that these systems are complicated and that adequate corrective measures do take time. It does seem to us, however, that by this time we should have clearly identified the problems and initiated vigorous and concerted action to solve them.

We would appreciate very much anything you can do to expedite the decisions and actions which are necessary to provide a satisfactory system with the least possible delay.

Sincerely,

Signed

L. K. White Deputy Director (Support)

#### Enclosure

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20505

Mr. Anthony W. Innamorati Regional Director Public Buildings Service General Services Administration Washington, D. C. 20407

Dear Mr. Innamorati:

There are certain deficiencies in the air conditioning and heating systems is our headquarters building at Langley. Virginia, which have existed since the building was first occupied and which need correction. It has taken time to go through a couple of heating and cooling seasons and to isolate them from the usual shakedown problems. It is requested that your office review the problems set forth in the attachment and submit proposals for their solutions.

The attachment is a summary of investigative work performed by Mesars. Gustav Bengtson and Richard Gibbons, PBS engineers; Roy Gaines, Chief Operating Engineer; and CIA engineer. Mr. Bengtson new has in his possession the resultant notes and sketches, and is fully conversant with the problems.

Included in the attachment is an item concerning the temperature of chilled water in the secondary system which is the subject of my letter of 22 August 1963 to you. It was of concern at that time because of its effect on the new air conditioning installed in the Director's office. It is also included here because of its relationship to these deficiencies. It is so noted in the attachment.

Not included in the attachment are the deficiencies concerning the outside air plenum and the evaporative condensers for the 330 ton compressor in the kitchen fan room. These were the subjects of previous correspondence with Mr. Bengtson and Mr. Von Otto.

Sincerely.

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Attachment

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#### Conteuts

- A. Malferritions of Main Air Macdlery
  - 1. Trock Air Compore
  - 3. Controls of Fresh Air Dompers and Probest Valves
  - J. Rebect Boscors
- D. Malienstias of Portmeter System
  - 1. Chilled Water Distribution
  - 3. Induction Units
  - 3. Thormostata
- C. Malfenetions of Dual Doct Systems
- D. Malfuzctions of Interior Systems

Attachment to lotter to Regional Director. Begion 3, PBS dated 7 October 1963.

### A. Malicrotions of Mala Air Mandlers

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#### 1. From Air Dampero

At present it is necessary to keep the cosing access from the special access from the fall below weather to temper the cold front ate with water air from the fall recess. Otherwise, the freeze provention theresextate trip out the fall. When the temperature rises above 200, the desire that the temperature rises above 200, the desire that the temperature rises above 200, the desired that the temperature overheating temperature.

# 2. Compele of Prost Air Dampero and Predect Stotes Valvoo

At present the sensors of the controls which extents both the dampers and steem valves are wired to the books of the prehect colling and senso the radical beat of the colle and est the air atream tempersaures. Also, at times it has been noted that emcospive time paried clapses between the time these sensors receive a signal and the time these sensors receive a signal and the time the campers and steam valves move. On cold days the dampers and steam valves move. On cold days the dampers and valves fluxtuate continuously and rapidly from fill open to full claused. Experimental modifications which have been made on two air bandlers to improve those semilations have been execusively.

### 9. Deheat Samoora

At present the releast sensors to not give representative readings of the six streams because they are postly leasted in the Carlo. Since have town lease. If has been anguested that they be moved down tuning out of the turbalent some and leasted with carry to ensure representative readings.

## B. Indication of Perimoter System

# 1. Chimed Unior Mistribules

Chilled water in furnished by the power house to the scaling coils in the six bandlers (the primary system) and to the coils in the publicator units (the secondary system). Detween these two sugments of the whole cooling system there exists a hydractic includance.

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Mr. Turner:

Attached is the correspondence on air-conditioning which you requested.

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#### B. Malfanstions of Parimeter System

## 1 - Chilled Weter Dictribution (soctioned)

Decouse of the imbalance, the mixing values of the restrictory expected are excellent to expect the transmission pressure exceeding to force the union from the proof bound to the remember the country point the childrent to be obser-circulated through the country point the childrent in two exceeding the impossible to properly regulate the temperature in the secondary system. (Note: This deficiency constructing the temperature of the occasiony childrent to the orbited of Mr. Emperature of the August 1968 to Mr. Emperature.)

### 2. Ictories Units (window ente)

For cf the induction tests to the building are delivering the correct accounts of air. This is due partly to tempering with the desapose in the units, partly to dirt in the orifless and on the cells, and partly to the second trively built or.

#### 3. Thormstate of the Perimeter System

- a. These thermostate, except for the 7th floor, are all mounted on the enterior valle. (On the 7th floor the encesse are in the viction beace.) In addition to pair functioning the to the vall locations, each thermostat centrals 7 to 18 units whereas good practice to to control to more than four units. There the 18 units are divided among several recess, large and small, the thermostat is not representative of all the recess.
- b. The promunite his lines have a history of carrying oil vegor which from time to time pluge the blood crifices in the thermoterists. The result is non-operative value values and them complaints.

# C. McMinutions of Deal Bust Systems

Chara eccioronce resens served by these cyclems have complained thous just of ventilation and post temperature control since occupancy. Investigation of complaints have revealed that the main trouble is in-singular air, but also some controls have been found to be arose-wired.

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#### D. Pelicactions of Islanias Systems

Complaints from areas on the interior systems are found to be exceed in great part by inchequate thermoctat control. Very large areas, as much as 70,000 square feet, and entending up from the 3sd through the tim floor, are exactalled by a single thermostation o "coper-semalive" reads. It has been suggested that the electronic well thermostate in representative reams he replaced by seasors placed in case return thats.